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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/579,518	04/06/2007	Lothar Lais	ERT 208	8418

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EXAMINER	
GLASS, ERICK DAVID	
ART UNIT	PAPER NUMBER
2837	

MAIL DATE	DELIVERY MODE
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary	Application No.	Applicant(s)	
	10/579,518	LAIS, LOTHAR	
	Examiner	Art Unit	
	Erick Glass	2837	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE *3* MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1)☒ Responsive to communication(s) filed on *15 May 2006*.

2a)☐ This action is **FINAL**. 2b)☒ This action is non-final.

3)☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4)☒ Claim(s) *1-14* is/are pending in the application.

4a) Of the above claim(s) _____ is/are withdrawn from consideration.

5)☐ Claim(s) _____ is/are allowed.

6)☒ Claim(s) *1-14* is/are rejected.

7)☐ Claim(s) _____ is/are objected to.

8)☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9)☒ The specification is objected to by the Examiner.

10)☒ The drawing(s) filed on *15 May 2006* is/are: a)☒ accepted or b)☐ objected to by the Examiner.

Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

11)☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

12)☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

a)☒ All b)☐ Some * c)☐ None of:

1.☒ Certified copies of the priority documents have been received.

2.☐ Certified copies of the priority documents have been received in Application No. _____.

3.☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) ☐ Notice of References Cited (PTO-892)
2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3) ☒ Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date *10/22/07,5/15/06*.
4) ☐ Interview Summary (PTO-413) Paper No(s)/Mail Date. _____ .
5) ☐ Notice of Informal Patent Application
6) ☐ Other: _____.

DETAILED ACTION

Specification

1. The disclosure is objected to because of the following informalities:.

(a) This application does not contain an abstract of the disclosure as required by 37 CFR 1.72(b). An abstract on a separate sheet is required. Abstract is also objected to for clarity to properly print.

(b) The claims are required to begin with a separate sheet of paper. Appropriate correction is required.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

> A person shall be entitled to a patent unless –
>
> (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1, 2, 11, and 12 are rejected under 35 U.S.C. 102(b) as being anticipated by Andersen (US 5,773,943).

With respect to claim 1, Andersen teaches a drive device for passage barriers (abstract) or thoroughfare barriers and door or gate drives, having a brushless DC servo motor, characterized in that the DC servo motor (fig. 2, 11) has an associated servo controller (fig. 9, 50) and the output shaft (fig. 3, 8) of the DC servo motor is connected directly to the drive shaft (fig. 3, 4) of the barrier element.

With respect to claim 2, Andersen teaches a compact complete control device which comprises the servo controller (fig. 9, 50) and a logic section (fig. 9, 52) and a housing (fig. 3, 18), and which serves to control (column 7, lines 5-15) the motor as a function of signals.

With respect to claim 11, Andersen teaches in that a linkage (fig. 3, 14) can be interconnected between the servo motor and the barrier element which is to be moved (column 5, lines 45-62).

With respect to claim 12, Andersen teaches in that a step-down gear mechanism (fig. 3, 9) and a linkage (fig. 3, 12) can be interconnected between the servo motor and the element which is to be moved (column 5, lines 45-62).

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

> (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 3-10, 13, and 14, are rejected under 35 U.S.C. 103(a) as being unpatentable over Andersen (US 5,773,943) in view of Becker (US 5,245,258).

With respect to claim 3, Andersen does not teach characterized in that the logic section is designed as a pluggable logic circuit board. Becker teaches in that the logic section is designed as a pluggable logic (fig. 2, 5) circuit board. It would have been obvious to one having ordinary skill in the art at the time of the invention to incorporate a pluggable logic board to the motor

control system of Anderson for the advantage of to accomplish an easily installed assembly which can be programmed as desired, as taught by Becker (column 5, lines 49-55; column 7, lines 34-52).

With respect to claim 4, Andersen does not teach that different logic circuit boards can be plug-connected, different movement profiles and programs which
are directed at various applications are prespecified on said logic circuit boards, and said logic circuit boards have different numbers of inputs and outputs and different
operator control and display elements, depending on requirements. Becker teaches different logic circuit boards can be plug-connected, different movement profiles and programs which are directed at various applications are prespecified on said logic circuit boards, and said logic circuit boards have different numbers of inputs and outputs and different operator control and display elements, depending on requirements (column 5, lines 49-55; column 7, lines 46-52). It would have been obvious to one having ordinary skill in the art at the time of the invention to incorporate a pluggable logic board that has the advantage of being able to be programmed as desired, as taught by Becker (column 5, lines 49-55).

With respect to claim 5, Andersen does not teach a transmitter system which is integrated in the motor and supplies the required control signals. Becker teaches teach a transmitter system (fig. 2, 4) which is integrated in the motor and supplies the required control signals (column 5, lines 49-55). It would have been obvious to one having ordinary skill in the art at the time of the invention to incorporate a pluggable logic board/control system that has the advantage of being able to be programmed as desired, as taught by Becker (column 5, lines 49-55).

With respect to claim 6, Andersen and Becker do not teach in that the motor mount is formed as a fixed mount on the side of the transmitter system. Becker discloses the claimed invention except for the fixed mount. It would have been obvious to one having ordinary skill in the art at the time the invention was made to made the circuit assembly fixed, since it has been held that forming in one piece an article which has formerly been formed in two pieces and put together involves only routine skill in the art. *Howard v. Detroit Stove Works,* 150 U.S. 164 (1993).

With respect to claim 7, Andersen does not teach in that the transmitter system is connected to the motor plate by means of plug connection or clamping. Becker teaches the transmitter system is connected to the motor plate (fig. 2, 26) by means of plug connection (fig. 2, 11, 12; column 6, lines 45-51) or clamping. It would have been obvious to one having ordinary skill in the art at the time of the invention to incorporate a pluggable logic board that has the advantage of being able to be programmed as desired, as taught by Becker (column 5, lines 49-55).

With respect to claim 8, Andersen does not teach in that the plug connection is designed to be secure against polarity reversal and is provided with a locking means. Becker teaches the plug connection is designed to be secure against polarity reversal and is provided with a locking means (column 7, lines 46-52). It would have been obvious to one having ordinary skill in the art at the time of the invention to incorporate a pluggable logic board that has the advantage of being able to be programmed as desired such as locking means, as taught by Becker (column 5, lines 49-55).

With respect to claim 9, Anderson does not teach a commutation and position control in the motor are performed by means of a magnetoresistive sensor. Becker teaches a commutation and position control (column 6, lines 25-40) in the motor are performed by means of a magnetoresistive sensor (column 6, lines 25-27;"inductive measuring device"). It would have been obvious to one having ordinary skill in the art at the time of the invention to include a sensor to provide the advantage of getting feedback of speed/position signals, as taught by Becker.

With respect to claim 10, Andersen does not teach commutation and position control in the motor are performed by means of resolvers or encoders or Hall sensors. Becker teaches a commutation and position control (column 6, lines 25-40) in the motor are performed by means of resolvers or encoders or Hall sensors (fig. 2, 31, 32).

With respect to claim 13, Andersen does not teach in that the inputs and outputs are separate from the actual motor control system/logic circuit board and designed as an independent module. Becker teaches the inputs and outputs are separate from the actual motor control system (fig. 2, 22)/logic circuit board and designed as an independent module (fig. 2, 6). It would have been obvious to one having ordinary skill in the art at the time of the invention to incorporate a pluggable logic board with various input/outputs that has the advantage of being able to be programmed as desired, as taught by Becker (column 5, lines 49-55).

With respect to claim 14, Andersen does not teach in that the inputs and outputs can be connected by a pluggable bus connection or a pluggable, multicore cable. Becker teaches the inputs and outputs can be connected by a pluggable bus connection or a pluggable, multicore

cable (column 7, lines 10-52). It would have been obvious to one having ordinary skill in the art at the time of the invention to incorporate a pluggable logic board with multiple pins/cables/control signals that has the advantage of being able to be programmed, as taught by Becker (column 5, lines 49-55).

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Erick Glass whose telephone number is (571)272-8395. The examiner can normally be reached on 9-5 M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Walter Benson can be reached on 571-272-2227. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Erick Glass/
Examiner, Art Unit 2837
/Walter Benson/
Supervisory Patent Examiner, Art Unit 2837